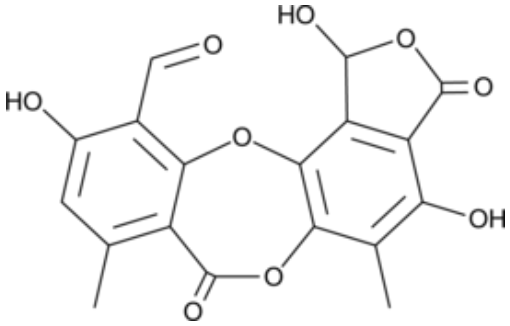
Product Data Sheet

Product Name: Norstictic Acid
Cat. No.: GC46018

Chemical Properties

Cas. No.	571-67-5		
SMILES	O=CC1=C2C(C(OC(C(C)=C(O)C3=C4C(O)OC3=O)=C4O2)=O)=C(C)C=C1O		
Formula	C18H12O9	M.Wt	372.3
Solubility	DMSO : 10 mg/mL (26.86 mM; Need ultrasonic and warming)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Norstictic acid is a lichen metabolite that has been found in R. farinacea and has antimicrobial and anticancer activities.1,2 It is active against A. hydrophilia, B. subtilis, L. monocytogenes, P. vulgaris, S. faecalis, C. albicans, and C. glabrata (MICs = 0.1-6.7 mM).1 Norstictic acid (1-100 μM) inhibits proliferation, migration, and invasion of MDA-MB-231 cells.2 In vivo, norstictic acid (15 mg/kg, i.p.) reduces tumor growth in an MDA-MB-231/GFP mouse xenograft model.

|1. Tay, T., TÜrk, A.•., Yilmaz, M., et al. Evaluation of the antimicrobial activity of the acetone extract of the lichen Ramalina farinacea and its (+)-usnic acid, norstictic acid, and protocetraric acid constituents. Z. Naturforsch. C J. Biosci. 59(5-6), 384-388 (2004).|2. Ebrahim, H.Y., Elsayed, H.E., Mohyeldin, M.M., et al. Norstictic acid inhibits breast cancer cell proliferation, migration, invasion, and

in vivo invasive growth through targeting c-Met. Phytother. Res. 30(4), 557-566 (2016).